ZHERUBLIN. G.P.; GOHELIK, L.E., otvetstvennyy redaktor; GOMEL'SKAYA, I.G., redaktor; RARHLINA, H.P., tekhnicheskiy redaktor.

[High-speed methods of working metal and their utility] Skorostnye metody obrabotti metalla i ith effektivnost'. Kiev, Isd-vo Akademii nauk Ukrainskoi SSR, 1953. 44 p. (MERA 8:2)

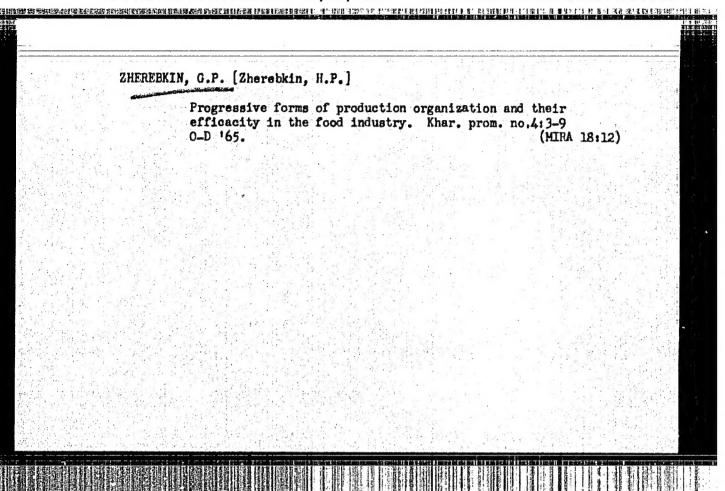
(Metal cutting)

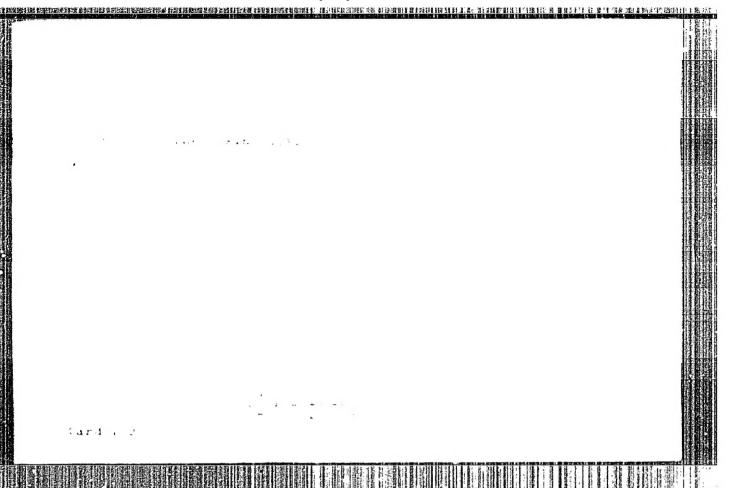
SZREDENKO, M.M.; GLAMAZDA, A.D.; KHOTIMCHENKO, M.M.; SEEVCHERKO, Ye.O.;
RUDOY, P.Yu.; KHARCHENKO, P.P.; KHAMOV, O.O.; GURIKOYA, V.O.;
GURBLIK, L.Ye.; RIZHKOV, I.I.; THAMOV, D.P.; MIKOLATEVA, I.V.;
KUROBKO, V., redektor; LAPCHENKO, K., tekhnichniy redektor

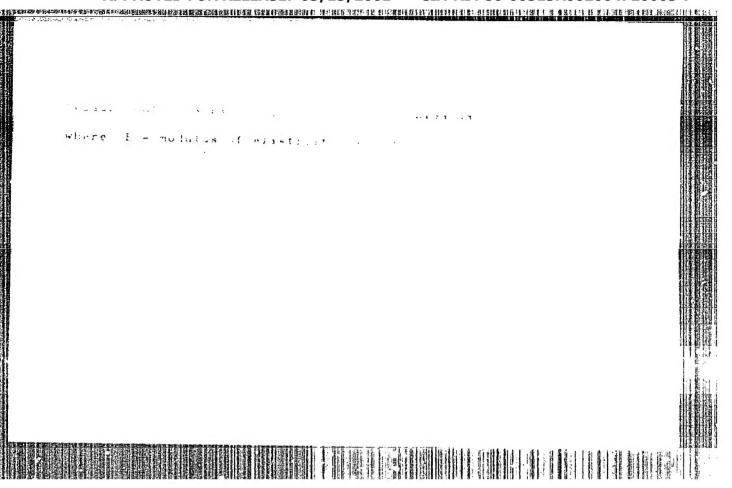
[Industry of the Soviet Ukraine during 40 years, 1917-1957]
Promyslevist' Realans'koi Ukrainy sa 40 kokiv (1917-1957). Kyiv,
Derzh.vyd-vo polit.lit-ry URSR, 1957. 330 p. (MIRA 10:10)

1. Akademiya mauk URSR, Kiyav. Institut ekonomiki.

(Ukrei:a--Industries)



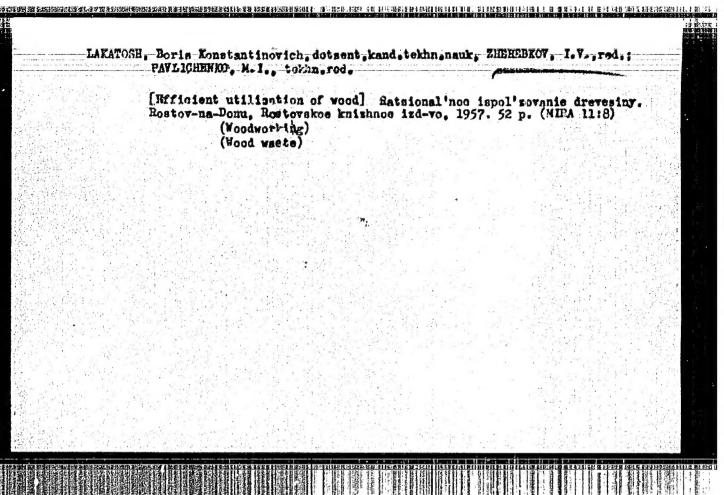




AMOSOV, N.N.; DUBIN, A.S.; ZUEKOV, V.A.; STARTSEV, V.I.; TOKAREV, Yu.S.; SHKARATAN, O.I.; KURTYNIN, M.S., red.; ZHERERKINA, D.I., red.; LEVONEVEKATA, L.G., tekhn. red.

[A generation of shock workers; a collection of documents and materials on socialist competition in Leningrad industrial plants in 1928-1961 Pokolentia udarnikov; sbornik dokumentov i materialov o sotsialisticheskom sorevnovanti na predpriiatiiakh Leningrada v 1928-1961 gg. Leningrad, Leninfizdat, 1963. 454 p. (MIRA 16:9)

1. Leningrad. (Pévvince) Gosudarstvennyy arkhiv Oktyabr'skoy revolyutsii i sotsialisticheskogo stroitel'stva. (Leningrad—Socialist competition)



AUTHORS:

Ginzburg, D. B., Doctor of Technical

101,72-58-7-2/19

Sciences, Zherebin, 3, 1.

TITLE:

Rationalization of the Fuel Economy of the Gor'kiy Glass Works (Ratsionalizatsiyz toplivnogo khozyaystva Gor'kovskogo

stekol'nogo zavoda)

PERIODICAL:

Steklo i keramika, 1958, Hr 7, pp. 3-8 (USSR)

ABSTRACT:

Measures, the introduction of which is intended within 2 to 3 years, are investigated. The increase of the gas heating power, as well as the suspension of the conduction of the phenol containing waste waters into the river Volga are considered to be urgent. The gas heating power required for obtaining a certain output of glass mass, as well as the dependence of the efficiency of the kiln on the output of glass mass are given in figure 1. It is intended to increase the heating power of the generator gas by the addition of propane-and butane gas. Some properties of these gases are given in table 1 and are further described. The scheme of a device for the storage and transportation of a propane-butane mixture is shown in figure 2. The dependence of the gas yield and its heating power on the humidity content of peat may be seen in figure 3. The quanti-

Cand 1/2

Rationalization of the Fuel Economy of the Gor'kiy

SOY72-58-7-2/19

tative ratio between the propane-butane mixture and the generator gas at various schemes of gas purification and utilization of tar in dependence on the humidity content of peat and on the heating power required by the mixture is given (Figs 4 to 9). Furthermore, 4 variants of using undried gas are given and described. The possibility and suitability of the drying of peat by means of exhaust gases was found by tests carried out by the Institute of Power Engineering AS of the BSSR (AS Belorussian SSR ) (I.A. Lyuboshits and I.T. El'perin/Ref 1) and by the Institute of Gas Utilization, is USSR (A.T. Tishcherko / Ref 2). For conveying the tar to the nozzle burner, the use of an oil-pumping outfit developed by TsNIITMash (Fig. 10) is considered. The construction of the nozzle burner in which the fuel is sprayed by highly calorific gas, was proposed by the metallurgists N.N. Dobrokhotov and N.N. harp (Ref 1). It is also recommended to try out the nozzle burner developed by N.A. Zakharikov and A.I. Rozhanskiy at the Institute of Gas Utilization AS USSR (Ref 1). Concludons: The heating power of peat-generator gas may be increased by the addition of a propane-butane mixture and by artificial reat

Card 2/3

Rationalization of the Fuel Economy of the Gor'kiy Glass Works

304/72-58-7-2/19

斯多特特自我的主义 斯曼斯 医耳唇畸形 對一性 经保证证券 拉克斯格兰斯 化二甲基甲烷 经收益的 医肠囊 经抵押的 化二甲基甲基

drying. In the case of an enrichment of the gas by propanebutane and a utilization of the tar by burning in the kiln, a wet gas purification and draining of the waste waters may be dropped. The application of the heat from exhaust gases is of great importance for the drying of peat. There are 11 figures, 2 tables, and 4 Soviet references.

1. Glass--Production 2. Fuels--Costs 3. Gases--Properties

Card 3/3

21,5300

SOV/120-59-5-5/46

AUTHORS:

Zherebin, Ye. A., Andreyev, L. G. and Timoshuk, D. V.

TITLE:

Fast Neutron Spectrometer

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 5, pp 29-32

(USSR)

ABSTRACT: The spectrometer is based on the principle put forward by Mozly and Shoemaker in Ref 1 and is illustrated schematically in Fig 1. The detecting system consists of two scintillation counters, a proton proportional counter and a collimator. The detecting system is placed in a common jacket filled with methane, which is the working gas of the proton counter. The neutron beam n is incident on a crystal phosphor 1 (tolane) which is the source of recoil protons in the spectrometer. The collimator 5 selects the recoil protons from the crystal 1 and lets them through into the proton counter 3,4 and the crystal phosphor 2 (tolane) of the other scintillation counter. The recoil protons spend almost all their energy in the crystals of the two scintillation counters. The sum of the pulse heights from the scintillation counters is proportional to the energy of the neutron which gives rise to the particular recoil

Card1/3

66362 SOV/120-59-5-5/46

Fast Neutron Spectrometer

The pulse from the output of the proton counter is used in a coincidence circuit to separate out the y-rays. Pulses from the scintillation counters 1 and 2 and the proton counter are applied to the inputs of channels I, II and P of the electronic scheme of the spectrometer (Fig 2). Channels I and II of the scintillation counters are The wide-band amplifiers 1 have switches identical. giving two values of the amplification coefficient so that the work may be carried out in two energy intervals. output cathode followers of these amplifiers feed the pulses into the delay lines 2 so that the scintillation pulses and the pulses from the proton counters are A part of the signal brought to the same point in time. is fed through the amplifiers 3 into the triple coincidence circuit 9. The pulses from the proton counter are fed into the amplifier 7, are shaped by the fast trigger 8 and are then fed into the triple coincidence circuit 9. A pulse will appear at the output of this circuit only if the recoil proton produced in the scintillator 1 (Fig 1) passes through the collimator 5, the proton counter and enters the scintillator 2. The remaining parts of

Card2/3

66362

Fast Neutron Spectrometer

SOV/120-59-5-5/46

the signal from the delay lines 2 are fed through the transmission circuits 4. The pulse from the triple coincidence circuit 9 opens the transmission circuit 4 for channels I and II. The total pulses are fed into the amplifier 14 and then to the amplitude analyser 15. The efficiency of the spectrometer is 1.31 x 10<sup>-4</sup> for 14.5 MeV neutrons. Fig 3 gives the dependence of the efficiency on energy. As can be seen, the relation is linear. The resolution is 10% at 14.5 MeV. Fig 5 shows the neutron spectrum from a Po + Be source, there are 6 figures and 4 references, 1 of which is Soviet and 3 English.

SUBMITTED: August 22, 1958

Card 3/3

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SEREDENKO, M.M., doktor ekon. nauk; ALEKSANDROVA, V.P.; KUGUSHEV, M.F. [Kuhushev, M.F.]; SHEVCHENKO, Ya.O.; GLAMAZDA, A.D. [Hlamazda, A.D.]; ZABORSKAYA, Z.M. [Zabors'ka, Z.M.]; KHOTIMCHENKO, M.M. [Khotymchenko, M.M.]; YATSKOV, V.S.; MEDVEDEV, V.M. [Medvediev, V.M.]; CHIRKOV, P.V. [Chyrkov, P.V.]; KHARCHENKO, P.F.; SOTCHENKO, Z.Ya.; PROFATILOVA, L.M. [Profatylova, L.M.]; MAULIN, M.O.; GORELIK, L.Ye. [Horelik, L.IE.]; RIZHKOV, I.I. [Ryzhkov, I.I.]; ZHEREBKIN, G.P. [Zherebkin, H.P.]; KHRAMOV, O.O.; LANDYSH, B.O., red.; ROZENTSVEYG, Ye.N. [Rozentsveih, IE.N.], tekhn. red.

[Economic efficiency of capital investments and the introduction of new machinery in industry] Ekonomichna efektyvnist kapital - nykh vkladen i vprovadzhenniia novoi tekhniky u promyslovosti.

Kyiv, Vyd-vo Akad. nauk URSR, 1962. 260 p. (MIRA 16:2)

1. Akademiya nauk URSR, Kiev. Instytut ekonomiky.
(Capital investments) (Technological innovations)

KUNSHVICH, Anton Ivanovich [Konsievych, A.I.], kand.ekonom.nauk; ZHERZSKIV,
G.P. [Zherebkin, H.P.], kand.ekonom.nauk, otv.red.; GURENKO, V.A.

[Eurenko, V.A.], red.

[Carrying out the resolutions on the development of stockbreeding as directed by the December Plenum of the Central Committee of the CPSIJ Tykonaiemo rishennia hrudnevoho Plenum Tak KPRS v dal'shown pidnesenni tvarynnytstva. Kyiv. 1960. 39 p. (Tovarystvo diia poshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR. Ser.6, no.12).

(Stock and stockbreeding)

KUZNETSOV, Aleksey Vasil'yevich; ZHEREBKINA, D.I., red.; TIKHOCHOVA, I.M., tekhn. red.

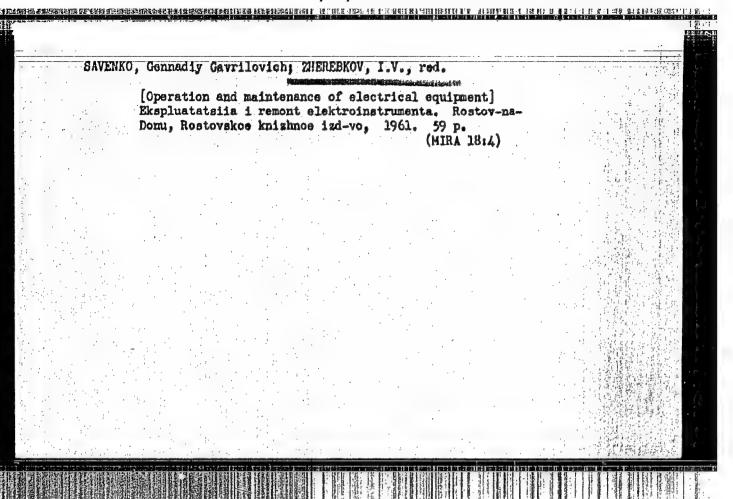
[Communist labor will triumph; from the experience of communist labor groups in Leningrad industries] Kommunisticheskii trud pobedit; iz opyta raboty kollektivov kommunisti-

cheskogo truda promyshlennykh predpriiatii Leningrada. Leningrad, Lenizdat, 1961. 101 p. (MIRA 15:2) (Leningrad—Socialist competition)

KULIKOV, Georgiy Petrovich; ZHEREBKOV, I.V., red.; MARINTUK, W.V., tekhn.red.

[Ceramic metals and speed cutting] Mineralokeramika i skorostnoe rezanie. Rostov-na-Donu, Rostovskos knizhnos izd-vo, 1958. 38 p.

1. Nachalinik laboratorii rezaniya Novocherkasakogo elektrovozostroitelinogo zavoda (for Kulikov). (Cutting tools)



FOMICHEV, V.P., kend. tekhn. nauk; ARZHANOVSKOV, A.I., inzh.;
ZHEREBKOV, I.V., red.

[Resistance of hard and frozen ground to cutting] Soprotivlenie rezaniiu tverdykh i merzlykh gruntov. Rostov-na-Donu,
1962. 38 p. (MIRA 17:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut po
stroitel'stvu, Rostov-on-Don.

GOZULOV, A.I., doktor ekonom. nauk, prof.; SHUMILIN, P.G., kand.
ekonom. nauk, dots.; SHESTAKOV, P.A., red.; SHIKIDEMAN,
K.A., red.; TOROFCHIN, N.S., red.; ZHERZEKOV, I.V., red.;
IVANOVA, R.M., tekhm. red.

[Rostov Province; nature, population, economy and culture]
Rostovakaia oblast!; priroda, naselenie, khoziaistvo, kul'tura.
Rostov-na-Domn, Rostovakoe knizhnee izd-vo, 1961. 333 p.

(MIRA 15:3)

(Rostov Province—Economic geography)

KUSMARTSEV, Vasiliy Sergeyevich; OBRAZTSOV, V.A., retsenzent; RAKOV, A.F., retsenzent; ZHEREBKOV, I.V., red.; AHRAMOVA, Ye.A., tekhn.red.

[Automatic control of production processes] Avtomatike proizvodstvennykh protesseov. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo. 1960. 95 p. (MIRA 14:2)

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IVANOV, V.A.; SOLODENKO, G.P.; GISSIN, I.M.; ICHATENKO, N.N.; ZHEREBKOV,
I.V., red.; MARINYUK, M.V., tekhn.red.

[Over-all mechanization and automation at the Rostov Agricultural

[Over-all mechanization and automation at the hostov agricultural Machinery Plant] Komplekanaia mekhanizatsiia i avtomatizatsiia na zavode Rostsel'mash. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, (MIRA 13:10)

(Rostov-on-Don-Agricultural machinery industry)

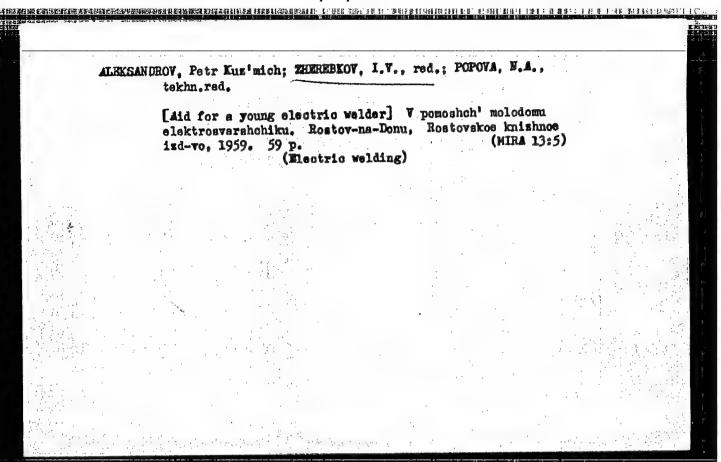
(Automation)

KRASUSKIY, Yevgeniy Stanislavovich; ZHEREBKOV, I.V., red.; MARINYUK,
M.V., tekhn.red.

[Silicalcite, a local building material] Silikal'tsit mestnyi stroitel'nyi material. Rostov-ns-Donu, Rostovakoe
knizhnoe isd-vo, 1959. 62 p.

(MIRA 13:6)

(Sand-lime products)



ZELENOV, Aleksandr Ivanovich, dotsent, kend, tekhm, nauk; INLISSYEV, P.G., retsenzent; ZHEREBKOV, I.V., red.; AERAMOVA, Ye.A., tekhm.red.

[Welding and surfacing of cast-iron parts] Svarka i naplavka chugunnykh detelei. Rostov, Rostovskoe knishnoe isd-vo, 1960.

115 p.

1. Rostovskiy institut inshenerov shelesnodoroshnogo transporta (for Zelenov).

(Gast iron-Welding) (Hard facing)

DMITRIYEV, Oleg Vladimirovich; ZHERREKOV, I.V., red.; MARINYUK, M.V., tekhn.red.

[Reinforcement wires with large cross sections] Struny bol'shogo secheniis. Rostov-na-Donu, Rostovskoe knizhnoe isd-vo, 1960.

146 p. (MIRA 14:2)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu v Rostove-na-Donu Akademii stroitel'stva i arkhitektury SSSR (for Dmitriyev). (Reinforced concrete) (Wire)

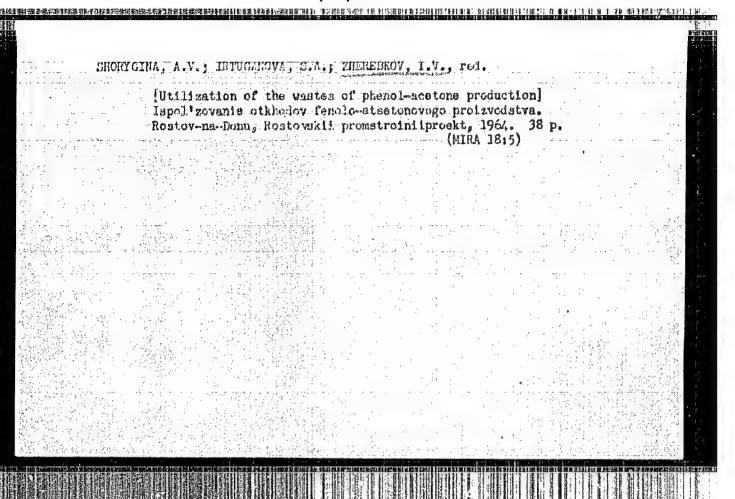
SHAKHBAZYAN, Shavarsh Abramovich; ZHEREBKOV, I.V., red.; MARINYUK, M.V., tekhn.red.

[Manual for young milling-machine operators] V pomoshch' molodomu frezerovshchiku. Rostov, Rostovskos knizhnos izd-vo, 1959.
94 p. (Milling machines)

DUROV, Svyatoslav Alekseyevich, prof., doktor khim.nauk; BULNUIN, S.I., red.; ZHRREBKOV, I.V., red.; MARIBIUK, M.V., tekhn.red.

[Geometrical method in hydrochemistry] Geometricheskii metod v gidrokhimii. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1959. 193 p. (Water-Composition)

(Water-Composition)



DAVYDENKO, Il'ya Danilovich, kand. tekhn. nauk, laureat Loninskoy i Stalinskoy premjy; CHEREBKOV, I.V., red.; ALYAKRITSKAYA, L.S., tekhn.

[Manual on welding electrodes] Spravochnik po svarochnym elektrodam. Rostov, Rostovkoe knizhmoe izd-vo, 1961. 227 p.

(Welding—Equipment and supplies) (Electrodes)

CHERKASOV, Anatoliy Nikolayevich; ZHEREBKOV, I.V., red.; CHEKANOV,
A.A., tekhn.red.

[Methods for solving statics problems] Netodika reshenila

[Methods for solving statics problems] Netodika resheniia sadach po statike. Izd.2., dop. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1958. 114 p. (MIRA 12:5) (Statics)

DUBROYSKIY, Sersim Sergeyevich; SEL'VANYUK, Mikhail Igorevich;
ZHEREKOV, I.V., red.; ABRANOVA, Ye.A., tekhn.red.

[Manual for workers in mechanised mines] V pomoshch'
prokhodchiku mekhanisirovannogo sabois. Rostov. Rostovskoe
knishnoe izd-vo, 1959. 91 p.

(Coal mines and mining)

(MIRA 14:2)

15(2) AUTHORS: Ginzburg, D. B., Doctor of Technical Sciences SOV/72-59-7-9/19

Matveyev, M. A., Zherebin, S. I.

TITLE:

Increase of the Working Efficiency of Glass Melting Furnaces by Sealing the Regenerative and Recuperative Systems (Povysheniye effektivnosti raboty steklovarennykh pechey putem uplotneniya

regenerativnoy i rekuperativnoy sistem)

PERIODICAL:

Steklo i keremika, 1959, Nr 7, pp 26 - 30 (USSR)

ABSTRACT:

The authors of this paper and I. V. Lebedeva (Footnote 1) found that the air excess in the tank furnace of the Gor'kiy glassworks amounts to 15% and of the Gusevo crystal works amounts to 23%. D. B. Ginzburg, M. Ya. Magidson (Footnote 2) found in the glassworks imeni Kalinin an air excess of oc = 1.2. Therefore the authors of this paper do not agree with the statement of V. A. Krechmar and M. G. Stepanenko (Footnote 4) that the burning in the furnace in the glassworks takes place with an air excess of a \* 1.5 till 1.7. The amount of gas passing the regenerators is calculated by means of equations which are given and explained. These informations for the Cor'kiy works were published already earlier, for the Gusevo crystal works they are represented in the figure. As it may be seen from it it is possible to attain considerable savings by making

Card 1/2

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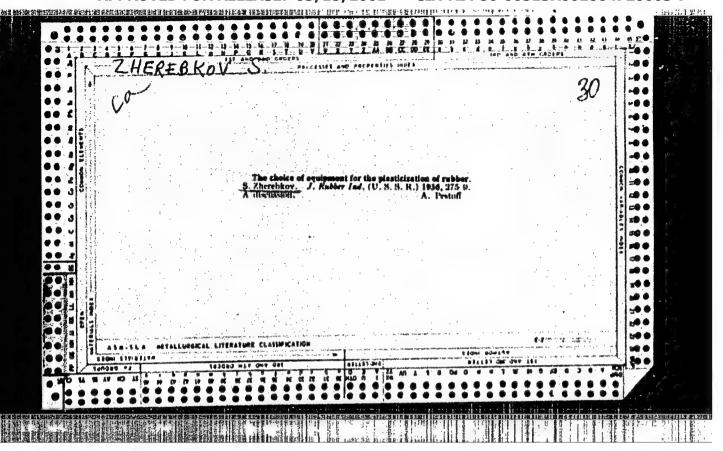
Increase of the Working Efficiency of Glass Melting Furnaces SOV/72-59-7-9/19 by Sealing the Regenerative and Recuperative Systems

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sealing tight the regenerative system of a glass melting furnace among it 5 to 6% of the fuel consumption. The authors of this paper elaborated and tested two kinds of coatings, the milicate (CZh-4)—and the magnesia coating (CM-8). Their composition, manufacturing method and properties are exactly described. The coatings CM-8 and CZh-4 proved to be the best also in the sealing of surfaces with

temperatures up to 300°. On account of the experience of the Gor'kiy glassworks the coating OZh-4 can be recommended for sealing burners, regenerators and recuperators of the glass melting furnaces. There are 1 figure and 6 Soviet references.

Card 2/2



ZHEREBKOV, Serafim Konstantinovich; RABUSHKINA, S.I., redaktor; KORNEYEVA,

V.I., tekhnicheskiy redaktor

[The holding power of resins applied to metals] Kreplenie resiny k
metallam. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1956.

147 p. (MIRA 9:8)

(Gluing) (Adhesives) (Resins, Synthetic)

# "APPROVED FOR RELEASE: 03/15/2001

### CIA-RDP86-00513R002064720003-7

ZHEREBKOV S.K.

USSR/Chemistry of High Molecular Substances.

Abs Jour

Referat. Zhurnal Khimiya, No 6, 1957, 19423.

Author

B.V. Deryagin, S.K. Zherebkov, A.M. Medvedeva.

Inst ... Title

Concerning the Part of Diffusion of Polymer Chains

in the Mechanism of Adhesion and Autohesion (Sticking

Together) of Rubbers.

Orig Pub : Kollod. Zh., 1956, 18, No 4, 404-412.

Abstract

With a view to study the influence of relaxation or diffusion processes on autohesion, the autohesion of HK and SKB was investigated, using the method of crossed quartz threads covered with rubber films (Kolloid. zh., 1950, 12, 431; RZhKhim, 1956, 32140). It was shown that the energy of autohesion sharply increased in case of films from 0 to 0.1 mand above 0.5 thick, which was connected with the increase of van der Waal's forces in the first case, and with the faciliatation of formation of platforms at easily de-

Card 1/3

-12-

USSR/Chemistry of High Molecular Substances.

F

Abs Jour

Referat. Zhurnal Khimiya, No 6, 1957, 19423.

formed thick films in the second case. In the thickness interval from 0.1 to 0.5,, the autohesion energy did not depend on the film thickness. The increase of the contact duration increased the autohesion energy only if the film thickness was>0.54, from which it followed that the diffusion processes did not play any part in the autohesion of thin films. During the study of the correlation of the combinability of various rubbers and their adhesion one to another and autohesion, the measurement of the shearing strength of rubber adhesion was carried out and it was shown that in case of butyl rubber, the diffusion processes did not play a great part and that its adhesion strength was determined by the area of the true contact depending on the mechanical properties and by the influence of forces connected with the double electrical layer, which played an essential part at the measurement of the work of tearing by the method of exfoliation. In case of NK, SKS-30, SKS-26,

Card 2/3

-13-

USSR/Chemistry of High Molecular Substances.

P

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19423.

SKB and nairite, the diffusion processes play an important part, which is confirmed by the correspondence of the adhesion magnitude to the combinability of rubbers, and it is most reliable to characterize the superficial combinability of rubbers by the similitude of their polarity. At this occusion,  $T_{12} / T_{11} > 1$  in case of the same polarity, and  $T_{12} / T_{11} < 1$  in case of different polarity, where  $T_{11}$  and  $T_{12}$  are the measured shearing resistance of identical and different rubbers respectively.

Card 3/3

14-

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720003-7"



DERTAGIN, B.V., ZHREEKOV, S.K.; MEDVENEYA, A.M.

Mechanism of adhesion and autohesion in rubbers. Dokl. AM SSSR 111

no.6:1267-1270 D '56.

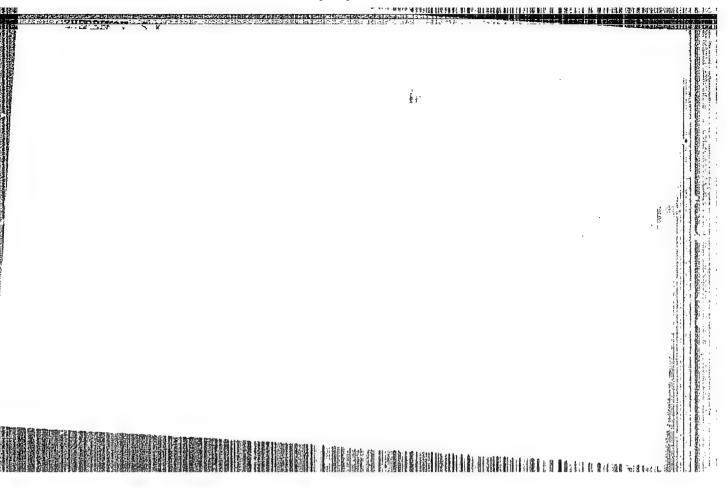
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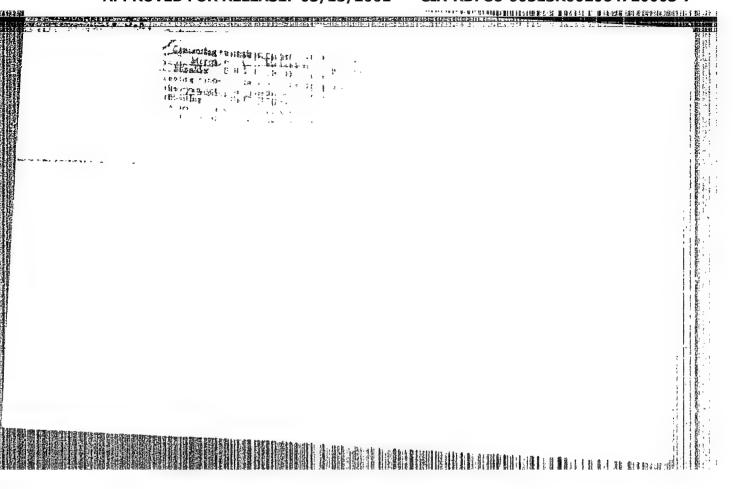
1. Chlen-korrespondent AM SSSR (for Deryagin). 2. Mauchno-issledovatel'-Akademii Hamk SSSR.

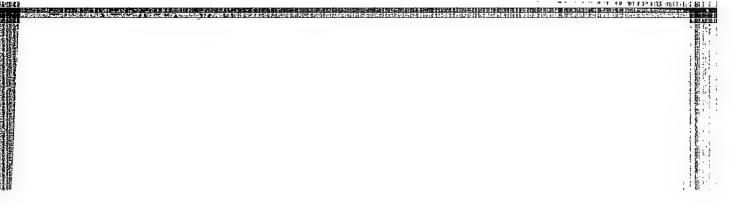
(Rubber) (Adhesion)

(Adhesion)

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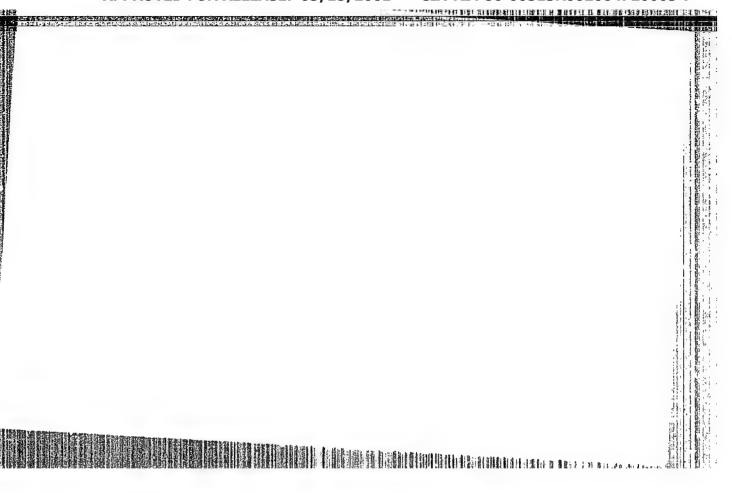


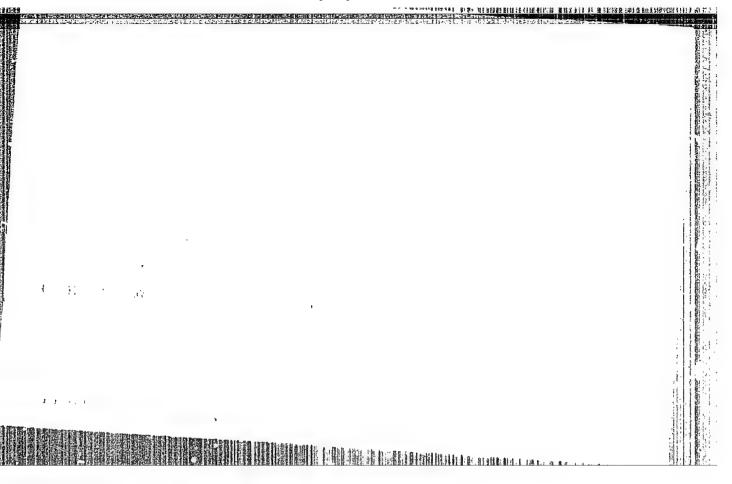
TUMANOV. A.T. P18V. Pod. 1 WATVIN

TUMANOV, A.T., glav. red.; VYATKIN, A.Ye., red.; GARBAR, M.I., red.; ZAYMOVSKIY, A.S., red.; KAHGIN, V.A., red.; KISHKIN, S.T., red.; KISHKINA-RATNER, S.I., doktor tekhn. nauk, red.; PANSHIN, B.I., kand. tekhn. nauk, red.; ROGOVIN, Z.A., red.; SAZHIN, N.P., red.; SKLYAROV, N.M., doktor tekhn. nauk, red.; FRIDLY ANDER, I.N., doktor tekhn. nauk, red.; SHUBNIKOV, A.V., red.; SHCHERBINA, V.V., doktor geol.-miner. nauk, red.; SHRAYBER, D.S., kand. tekhn. nauk, red.; GENEL', S.V., kand. tekhn. nauk, red.; VINOGRADOV, G.V., doktor khoz. nauk, red.; NOVIKOV, A.S., doktor khoz. nauk, red.; KITAYGORODSKIY, I.I., doktor tekhn. nauk, red.; ZHEREBKOV.S.K., kand. tekhn. nauk, red.; BOGATYREV, P.M., kand. tekhn. nauk, red.; SANDOMIRSKIY, D.M., D.M., kand. tekhn. nauk, red.; BUROV, S.V., kand. tekhn. nauk, red.; POTAK, Ya.M., doktor tekhn.nauk, red.; KUKIN, G.N., doktor tekhn. nauk, red.; KOVALEV, A.I., kand.tekhn. nauk, red.; YAMANOV, S.A., kand. tekhn. nauk, red.; SHEFTEL!, I.A., kand. khoz. nauk, st. nauchn. red.; BABERTSYAN, A.S., inzh., nauchn. red.; BRAZHNIKOVA, Z.I., nauchn. red.; KALININA, Ye.M., mlad. red.; SOKOLOVA, V.G., red.-bibliograf; ZENTSEL'SKAYA, Ch.A., tekhn. red.

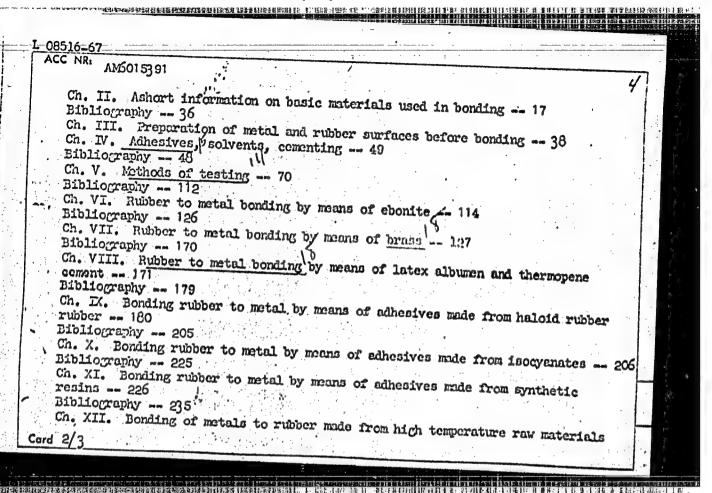
[Building materials; an encyclopedia of modern technology] Konstruktsionnye materialy; entsiklopediia sovremensei otshukkoo2064720003-APPROVED.FOR.REHEASEA003/155k200 Sovetskala entsiklopediia. Vol.1. Abliatsiia - korroziia. 1963. 416 p. (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Kishkin).





/== (m)/==J-(c-)/EMP(v)/==T-(J)/==--(u)/ETI/LMP(k)/EMP(1) VPRO12331 \_HM/JD/VM Zherebkov, Serafim Konstantinovich Rubber to motal bonding (Krepleniyo reziny k motallam) 2d cd., rev. and enl. Moscow, Izd-vo "Knimiya", 66. 0346 p. illus., biblio., index. 5,300 copies printed. TOPIC TAGS: metal jointing, metal gluing, metal surfacing, natural rubber, synthetic rubber, metal bonding, adhesive bonding, bonding material PURPOSE AND COVERAGE: This book describes the methods of rubber to metal bonding used in the industry. The agents of bondings, the methods determining the strength of rubber to metal bonding and the modern theoretical concepts on the mechanisms of bonding are described. The book is intended for engineering and technical workers of the plants monufacturing rubber to metal bonded articles. It can also be used by researchers working in the field of rubber to setal bonding. TABLE OF CONTENTS (abridged): Foreword -- 8 Introduction -- 9 Ch. I. Basic information -- 11 Bibliography -- 15 Card 1/3 UDC621.792.4:678.063



(high heat resistant coments) 236  Bibliography 254  Ch. XIII. Nothods of cold bonding of rubber to metals  Bibliography 279				ls (cold cure	(cold cure adhesives)		
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DERYAGIN, B.V.; KARASEV, V.V.; MEDVEDEVA, A.N.; ZHERERKOV, S.K.

Electron emission on the losening of vulcanized rubber from metal and glass in a vacuum. Koll. zhur. 27 no.1:35-41 Ja-F '65.

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti
i Institut fizicheskoy khimii AN SSSR, Moskva.

BOCAYEVSKIY, A.P.; ZHEREBKOV, S.K.; GROZHAN, Ye.M.; POLYAKOVA, L.M.;
CHEIMODEYEV, A.D.

Investigating the chemical stability of the SKI-3 isoprene rubber and of the rubber and ebonite based on it. Kauch. i rez. 23 no.1:3-7 Ja 164. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

TUMANOV, A.T., glav. red.; VYATKIN, A.Ye., red.; GARBAR, M.1, kand.

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kand. tekhn. nauk, red.; POTAK, Ya.M., dektor tekhn. nauk,

red.; KUKIN, G.N., dektor tekhn. nauk, red.; KOVALEV, A.I.,

kand. tekhn. nauk, red.; ZENTSEL'SKAYA, Ch.A., tekhn. red.

[Building materials; an encyclopedia of modern technology] Konstruktsionnye materialy; entsiklopediia sovremennoi tekhniki. Glav. red. Tumanov, A.A. Moskva, Sovetskaia entsiklopediia. Vol.1. Abliatsiia - Korroziia. 1963. 416 p.

(MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Kishkin).

BOGAYEVSKIY, A.P.; ZHEREBKOV, S.K.; GROZHAN, Ye.M.; CHELMODEYEV, A.D.

Investigating the chemical stability of some natural rubbers and rubber goods produced on their base. Kauch.i rez. 21 no.12:11-14 D '62. (MIRA 16:1)

1. Mauchno-issledovatel'skiy institut rezinovoy promyshlennosti. (Rubber—Testing)

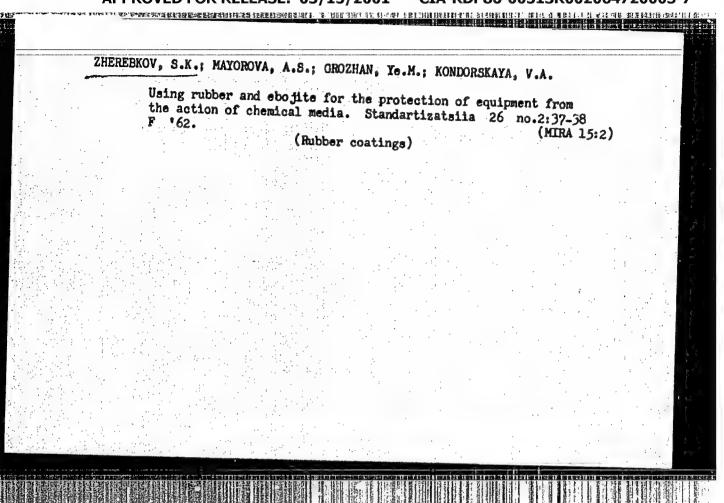
KOROLEV, A.Ya.; ZHEREPKOV, S.K.; BORISOVA, F.K.; MEDVEDEVA, A.M.;

GROZHAN, Ye.M.

Bonding of fluoroplast 4 to rubber. Plast.massy no.5:37-39 '62.
Plast.massy no.5:37-39 '62.

(Fluoroplast) (Rubber) (Adhesion)

(Fluoroplast) (Rubber) (Adhesion)



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S/191/62/000/005/008/012 B110/B101

15.0160

AUTHORS:

Korolev, A. Ya., Zherebkov, S. K., Borisova, F. K.,

Medvedeva, A. M., Grozhan, Ye. M.

TITLE:

Cluing of ftoroplast-4 to rubbers

PERIODICAL:

Plasticheskiye massy, no. 5, 1962, 37-39

TEXT: Ftoroplast-4 (polytetrafluoro ethylene) was glued to organofluorine and acrylonitrile rubbers. For this purpose the surface, degreased by means of gasoline, was modified with a sodium-naphthalene complex activated by addition of 2 g-atom Na metal per mole naphthalene in 1 liter tetrahydrofuran. After 40 sec treatment of the film, rinsing in acetone and water, and 30 min drying at 100°C, the surface color turned from milky white to gray-brown. The contact angle of wetting with water dropped here from 106 to 45-55°. Crude rubbers were pasted on using glue on the basis of nitrile rubber and thermoreactive resin (\$\overline{O}\$H-1 (FEN-1)). The strength of gluing of organofluorine and acrylonitrile rubbers to ftoroplast-4 with smooth surface was 0.56-0.92 kgf/cm, with rough surface 2.55-5.60 kgf/cm. The gluing of CKH-26 (SKN-26) rubber to

Card 1/2

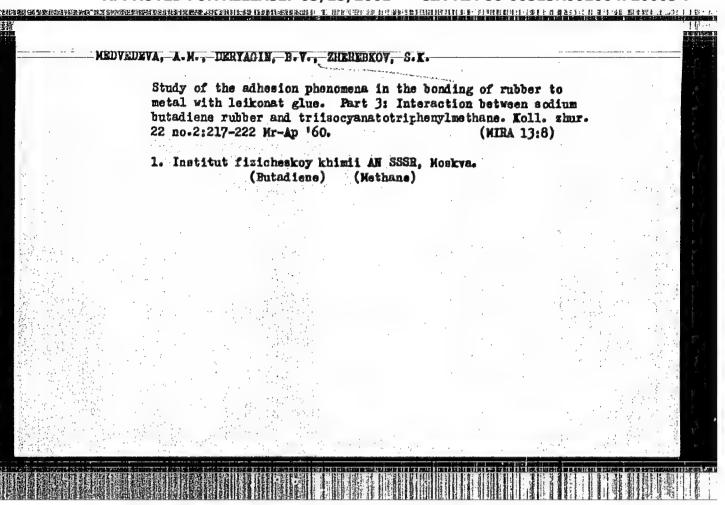
Gluing of ftoroplast-4 to rubbers

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ftoroplast-4 with rough surface was stable against heat aging at 100 and 170°C and 50 hr effect of AMV-10¢ (AMG-10f) medium at 170°C. By means of FEN-1, ftoroplast-4 films can also be glued to one another, to vulcanized organofluorine and acrylonitrile rubbers, and to metals, the heat treatment lasting for 60 min at 100°C. Glued joints with ftoroplast-4 with rough surface were destroyed within the rubber. There are

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Card 2/2



s/138/59/000/07/03/009

AUTHORS:

Kaluzhenina, K. F., Zherebkov, S. K., Sukhotina, T. M.,

Sergeyicheva, V. S.

TITLE:

On the Properties of Mixtures and Vulcanizates Based on Bromobutyl

Rubber 16

PERIODICAL: Kauchuk i Rezina, 1959, No. 7, pp. 13-18

TEXT: The authors outline the valuable properties of butyl rubber and explain its application in the production of rubber articles. The chemical and physical properties of vulcanizates made of butyl rubber are due to their low non-saturation and also to the presence of regularly distributed side methyl groups, linked with the densely packed linear chains, as described in Ref. 1, by R. Thomas and L. King. The properties of the vulcanizates made of the butyl R. Thomas and L. King. The properties are applied in the production of rubber are described, and how these properties are applied in the production of various rubberized articles. However, the disadvantage of the butyl rubber mixtures various rubberized articles. However, the disadvantage of the butyl rubber with other is the slow vulcanization and the incompatibility of the butyl rubber with other non-saturated polymers, as well as its poor adhesion to various metals. Some of non-saturated polymers, as well as its poor adhesion to various metals. Some of these disadvantages could be eliminated by the use of bromobutyl rubber. According to the authors, there are two methods for the production of bromobutyl

Card 1/3

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On the Properties of Mixtures and Vulcanizates Based on Bromobutyl Rubber

rubber: 1) by brominating the butyl rubber on the rollers with bromine, 2) by brominating the butyl rubber with ethyl bromine in a solution of ethyl chlorine. A comparison is made of the properties of domestic bromobutyl rubber produced by the two methods with those of the imported bromobutyl rubber of the Hiker (Khaykar) 2202 trade mark, and the possibility of combining the bromobutyl rubber with other polymers is shown. When combining the domestic bromobutyl rubber with natural rubber, rubber is obtained with satisfactory properties. The compatibility of the bromobutyl rubber with other polymers makes it possible to cement rubber onto metal. The experimental procedure undertaken is outlined in detail and the technological and physico-mechanical properties of the vulcanizates are determined and given in Table 1. The highest stability of the adhesion is reached between the ply of natural rubber or butyl rubber and a ply of a mixture of imported bromobutyl rubber, combined with natural rubber; a somewhat lower stability is reached with a ply of a mixture based on the domestic bromobutyl rubber, combined with the natural rubber. Adhesion to metal of the rubber can be accomplished by using the ply of a mixture based on the bromobutyl rubber. The possibility of fixing the bromobutyl mixtures to metal by the hot method was studied. The results of the tests are given in Table 7. The results of the

Card 2/3

SOV/81-59-9-33450 Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, p 562 (USSR) AUTHORS: Kaluzhenina, K.F., Skuba, I.A., Zherebkov, S.K., Medvedeva, A.M. TITLE: The Increase in the Adhesiveness of Rubber Mixtures and Olues Based on Synthetic Rubbers PERIODICAL: Tr. N,-1, in-ta rezin, prom-sti, 1956, Nr 3, pp 47 - 55 The possibilities of increasing the adhesiveness of mixtures and glues based on butadiene-styrene (BS), butadiene-nitrile (RN) rubbers and glues based on neoprene  $\nu(N)$  by means of condensation resins: ABSTRACT: rubrezina B (I), yarrezina A (II), yarrezina B (III) have been studied. The optimum dosis of these resins for raw mixtures of BS and EN is 10 weight parts per 100 weight parts of rubber. According to the capacity of increasing the adhesiveness of the raw mixtures of PM, I, II, III are equivalent. The introduction of these resine into the rubber mixture lard 1/2 does not affect the physical-mechanical properties of the relocationies.

The Increase in the Adhesiveness of Rubber Mixtures and Glues Based on Synthetic

I, II and corexin, being introduced into glues of BS and N, increase their confection adhesiveness considerably, as well as the stability of the adhesion of the parts after vulcanization. The properties of the glues of SKB rubber do not improve by the introduction of the resins indicated.

B. Glagolev

Card 2/2

69h6h 15,9210 \$/069/60/022/02/012/024 5( 15,1123 D034/D002 Medvedeva, A.M., Deryagin, B.V., Zherebkov, S.K. AUTHORS: Studies of Adhesion Phenomena in Rubber to Metal Bonding With "Leykonat" Glue, 3. Interaction Between Sodi-TITLE: um Butadiene Rubber and Triphenylmethane Triisocyanate Kolloidnyy zhurnal, 1960, Vol XXII, Nr 2, pp 217-222 PERIODICAL: (USSR) The authors report on a study of the interaction between rubber and triphenylmethene triisocyanate in solutions and the effect of the isocyanate on rubber as a vulcanizing agent. The study was intended to ABSTRACT: verify the assumption that the cause of adhesion at the boundary rubber - "Leykonat" film ("Leykonat" is a glue representing a 20% solution of triphenyl-methane triisocyanate in dichloroethane) consists in chemical interaction between the rubber and the Card 14

69464 \$/069/60/022/02/012/024 D034/D002

Studies of Adhesion Phenomena in Rubber to Metal Bonding With "Leykonat" Glue 3. Interaction Between Sodium Butadiene Rubber and Triphenylmethane Triisocyanate

isocyanate. Triphenylmethane triisocyanate can simultaneously interact with several rubber molecules, which necessarily must result in the formation of a structure similar to the network obtained by vulsodium butadiene rubber of the type RShch. For the study of the formation of three-dimensional ructures in the solutions a viscometer of the type RV-7 / Ref 3,4 / was used, which permits investigation of the properties of highly viscous liquids and concentrated disperse systems. This device makes the systems and to determine simultaneously the ultimate deformation stress. The design of the device

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69464 B/069/60/022/02/012/024 D034/D002

Studies of Adhesion Phenomena in Rubber to Metal Bonding With "Leykonat" Glue 3. Interaction Between Sodium Butadiene Rubber and Triphenylmethane Triisocyanate

and the way to use it for experiments are minutely described by M.P. Volarovich and L.Ya. Ginzburg Refs 4-6 J. The authors' experiments have shown that the reaction of rubber solutions with a solution of isocyanate develops in dependence on the rubber and isocyanate content. The viscosity of 1-2% rubber solutions, to which during storage isocyanate was added, shows only little changes. The viscosity of 3-5% rubber solutions increases by several magnitudes after introduction of the additive. After a certain these solutions. The study further revealed that isocyanate-containing rubber films which were heated at 143°C assume the properties of vulcanizates as

Card 3/4

AMERIUSHCHENKO, Mikolay Petrovich; ZHELATSHEV, Vasiliy Pavlovich;
ZHEREBKOV, I.V., red.; ABRAMOVA, Ie.A., tekhn.red.

[Vroking with a coping saw] Vypilivanie lobsikom. Rostov-na-Donu. Rostovakoe knishnoe isd-vo, 1959. 24 p. (MIRA 13:3)

(Handicraft) (Jig saw)

5(4) 15.9300, 15.1124

66200

SOV/69-21-5-10/23

AUTHORS:

Deryagin, B.V., Zherebkov, S.K. and Medvedeva, A.M.

TITLE:

A Study of Adhesion Phenomena in Rubber to Metal Bonding With Leykonat Cement. 2. Bonding of Metal and Unfilled Rubbers

TITLE:

Kolloidnyy zhurnal, 1959, Vol 21, Nr 5, pp 558-563

ABSTRACT:

This is a study of the adhesion phenomena observed in the bonding of unfilled rubbers to metals with the aid of the isocyanate cement: Leykonat. Table 1 gives a survey of the rubbers and their ingredients. The rubbers were bonded to metal plates (cleaned with emery paper Nr 100) during the vulcanization process. The bonding strength was characterized by the resistance to the separation of the rubber from the metal, and was expressed in kilograms per centimeter of the width of the specimen (creater).

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of the width of the specimen (erg/cm<sup>2</sup>). The results of preliminary experiments showed that in a number of

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A Study of Adhesion Phenomena in Rubber to Metal Bonding with Leykonat Cement. 2. Bonding of Metal and Unfilled Rubbers

cases the bonding strength exceeds the strength of the rubbers themselves, and the rupture has a cohesional character. In order to obtain in all cases an adhesional character of rubber-metal separation, the authors reduced the thickness of the cement film. The experiments revealed however, that this reduction in thickness affects differently the bonding strength of rubbers prepared on the basis of different natural rubbers. The data given in table 2 and graph 1 shows that with the aid of leykonat cement (on the basis of triisocyanate triphenyl methane) it is possible to bond to metal rubbers prepared on the basis of polar as well as non-polar natural rubbers. In proportion to the growing of the chemical activity and polarity of the natural rubbers, a growth in the intensity of interaction of the cement film can be observed with rubbers prepared on the basis of these natural rubbers, whereas the intensity of interaction of the cement film constant.

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A Study of Adhesion Phenomena in Rubber to Metal Bonding with Leykonat Cement. 2. Bonding of Metal and Unfilled Rubbers

The experimental results however, show that in the given case the bonding strength does not grow monotonously in proportion to the increase in chemical activity and polarity of the natural rubbers. After an initial growth it passes through a maximum, and subsequently drops. The authors have shown that the bonding strength of rubber to metal will be high only in the case of an approximate equality of the intensities of interaction at the cement-metal and cement-rubber interfaces. If when one of the surfaces is in contact with the cement film the intensity of interaction is considerably higher, the bonding strength of rubber to metal will be low. The authors already showed in a previous publication / Ref 1 / that there is an increase in intensity in the interaction of a cement film with a sandblast-treated metal surface. Bonding of the mentioned rubbers to such surfaces therefore, will bring about a change. The authors

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A Study of Adhesion Phenomena in Rubber to Metal Bonding with Leykonat Cement. 2. Bonding of Metal and Unfilled Rubbers

ascertained this phenomenon on the basis of two characteristic examples: bonding of unfilled rubbers prepared from butyl rubber and SKN-40. Whereas the bonding strength of the first rubber did not change, the bonding strength of the second rubber was increased by approximately ten times. On the whole, the experiments have shown that the strength of the rubber to matal bonding, due to the cement film, is controlled by the ratio of intensities of interaction of the latter with the contacting surfaces at the cement-rubber and cement-metal interfaces. In the case of an approximate equality of both intensities, the bonding strength will be low. One of the factors affecting the intensity of interaction of the cement film with the rubber is the reduction in thickness of the cement film. Such a reduction results in a drop in the intensity of interaction of film and rubber, which differently reflects on the strength

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A Study of Adhesion Phenomena in Rubber to Metal Bonding with Leykonat Cement. 2. Bonding of Metal and Unfilled Rubbers

of the rubbers to metal bonding, this strength increasing in some cases and decreasing in others. Use of the isocyanate cement leykonat makes possible a solid bonding to metal of unfilled resins prepared on the basis of most of the existing polar and nonpolar natural rubbers. It was ascertained that an increase of polar groups in natural rubber results in an increase in the intensity of interaction of the film with the rubber containing this natural rubber. There are 2 tables, 2 graphs and 2 Soviet

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti, Moskva (Scientific Research Institute of the Rubber Industry, Moscow)

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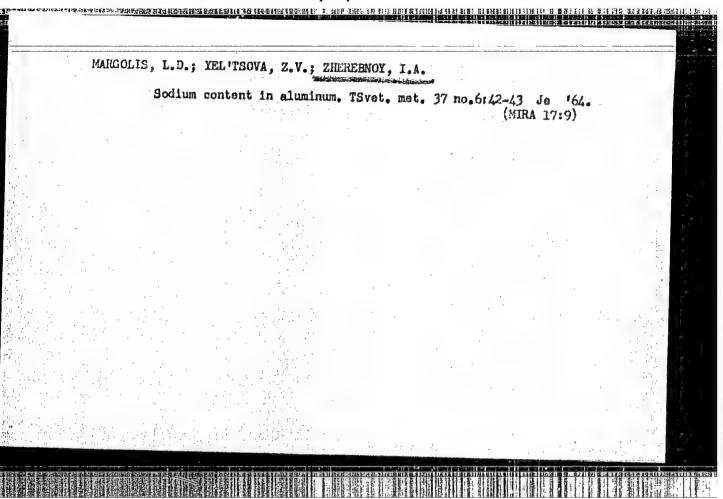
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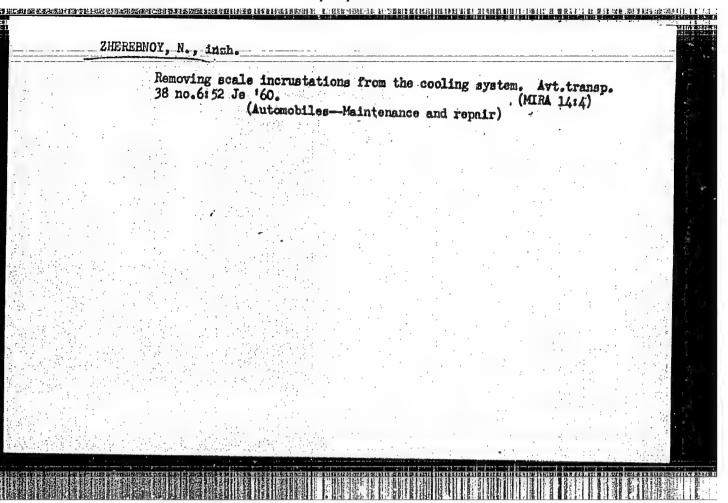
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ZUYEV, Yu.S.; PRAVEDNIKOVA, S.I.; ZHEREBKOVA, L.S.; ZAYTSEVA, V.D.

Rupture life of rubbers in the presence of physically aggressive media. Vysokom.soed. 5 no.8;1201-1206 Ag '63. (MRA 16:9)

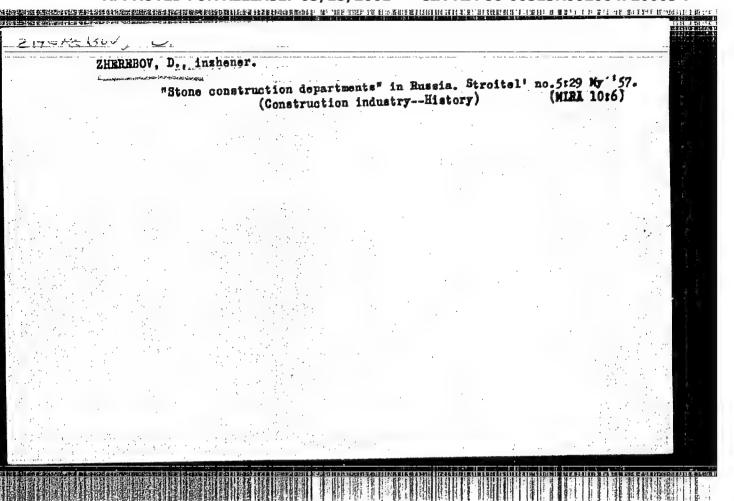
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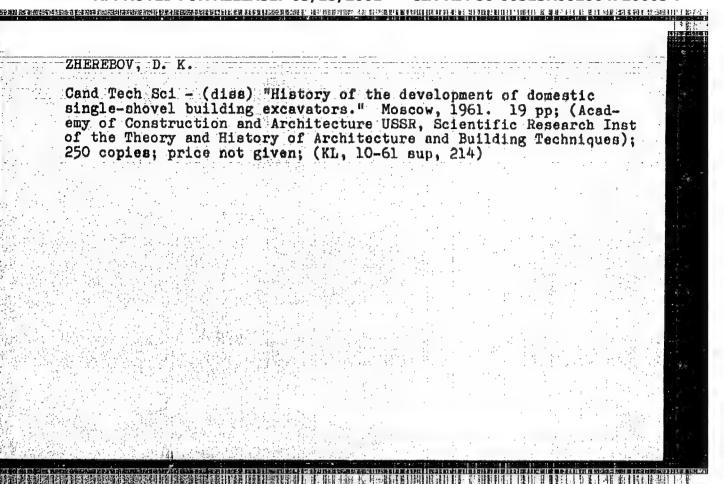
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- 2. USSR (600)
- 4. Building
- 7. Rapid construction in old Russia. Tekh. molod, 20 no. 9, 1952.

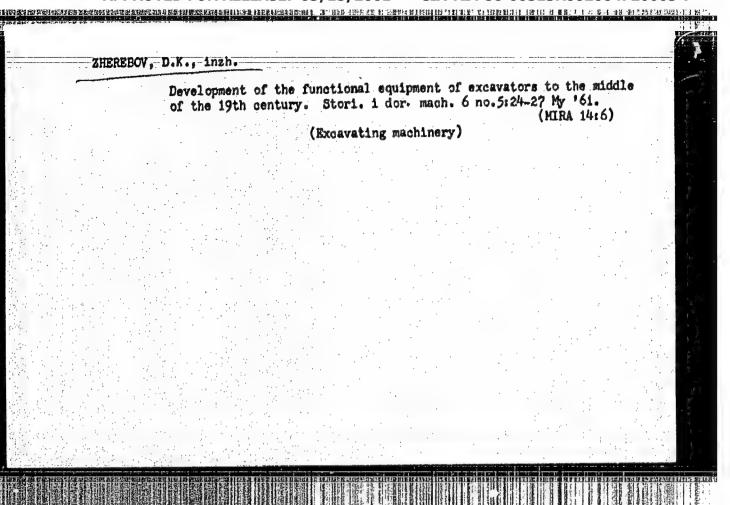
9. Monthly List of Russian Accessions, Library of Congress, January. 1953, Unclassified.

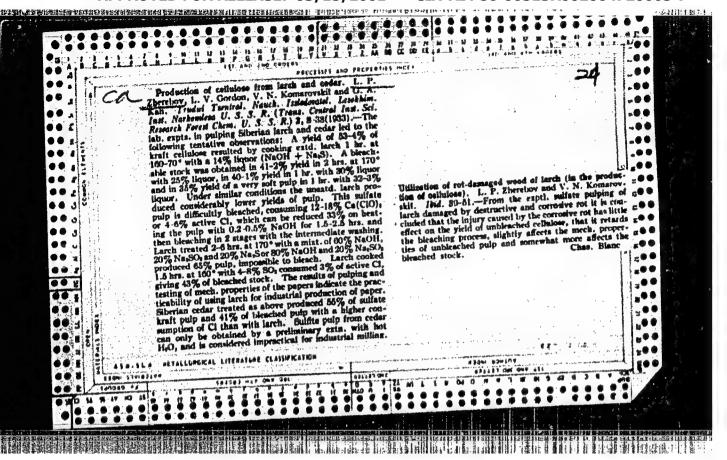


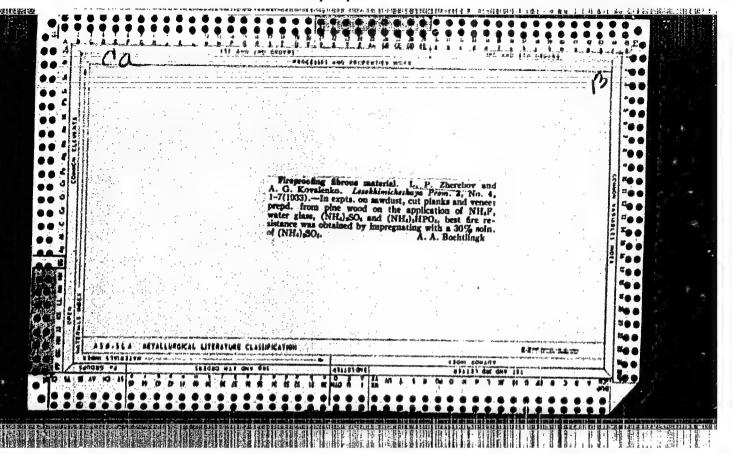
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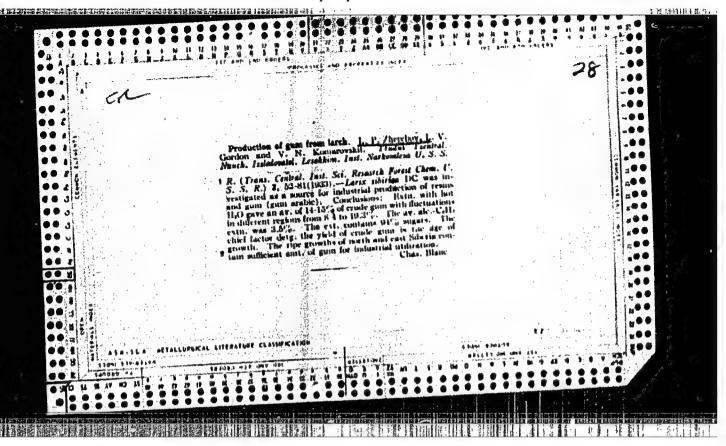
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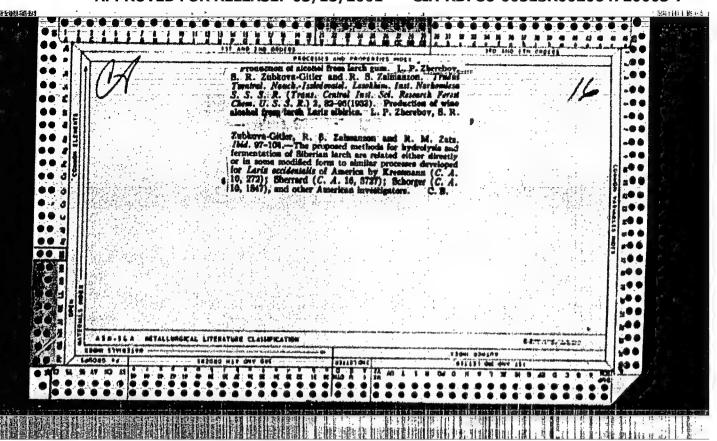


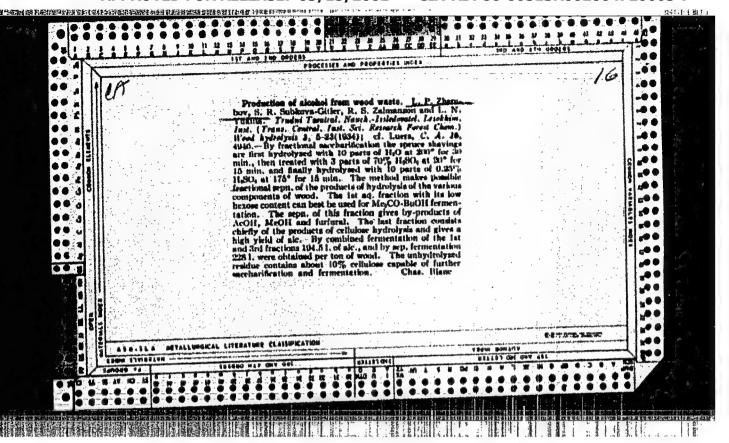


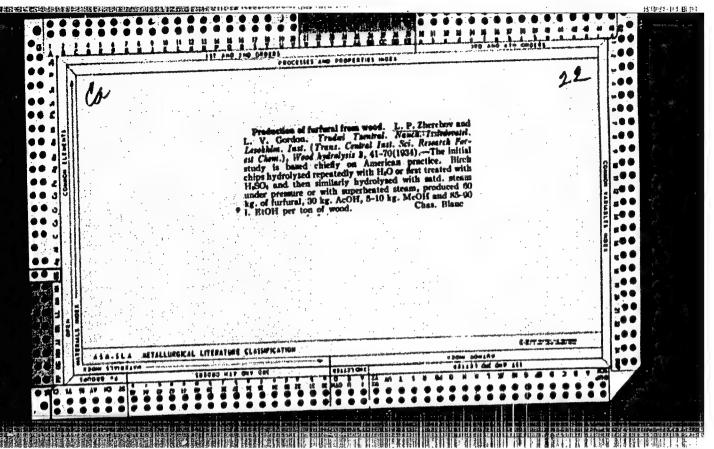


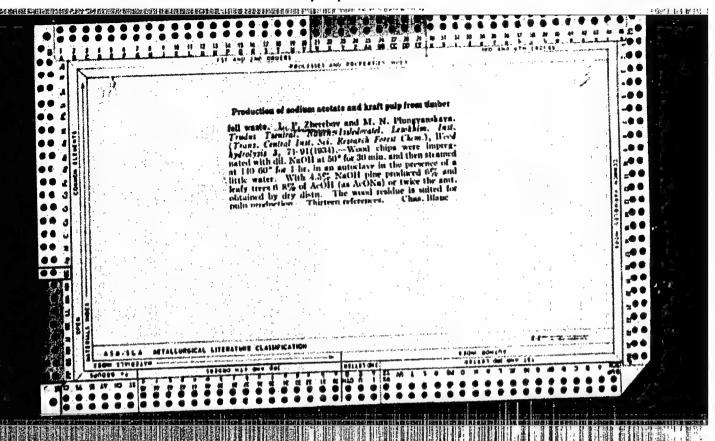


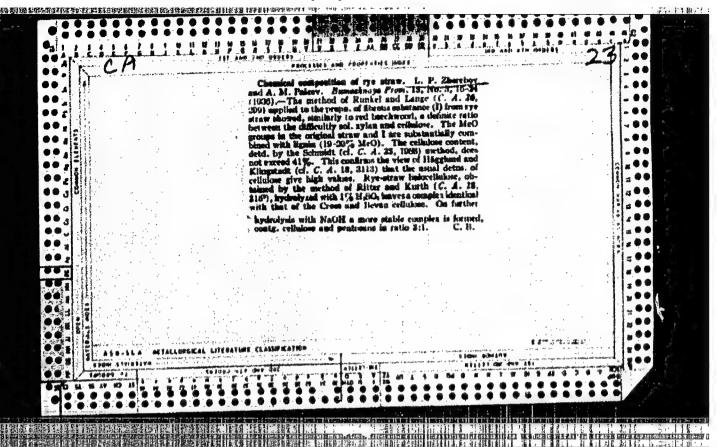


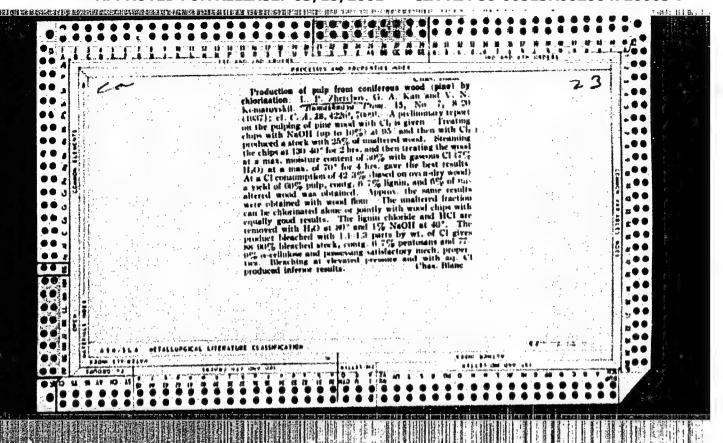


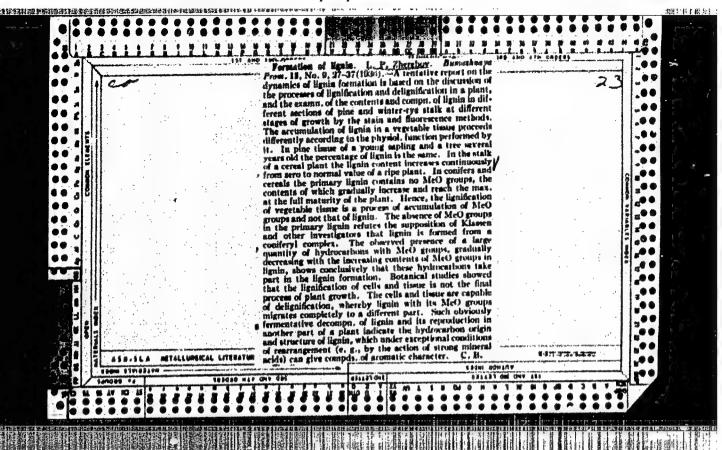






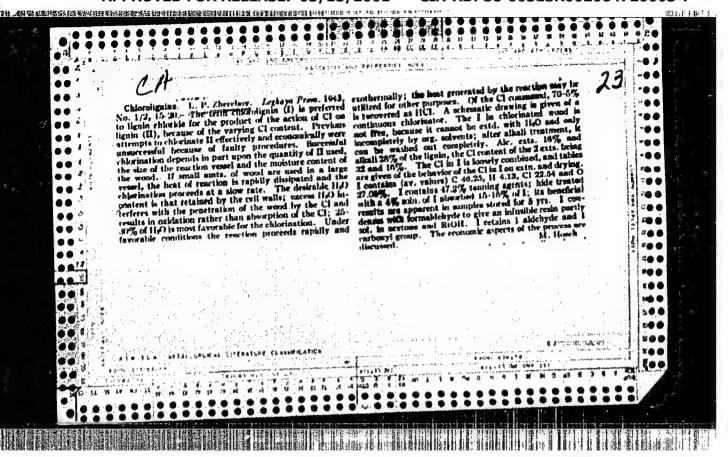


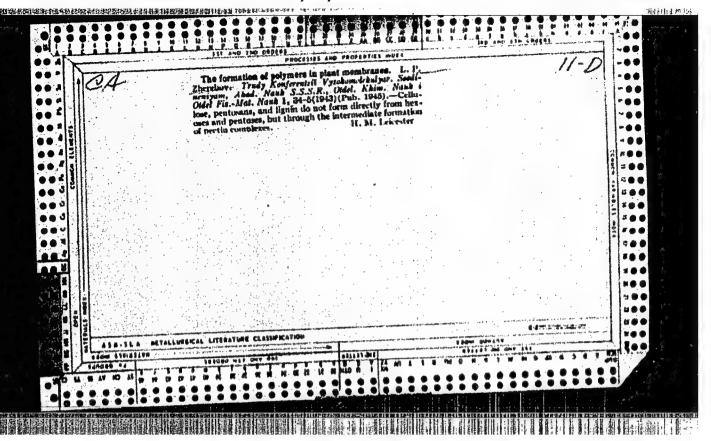


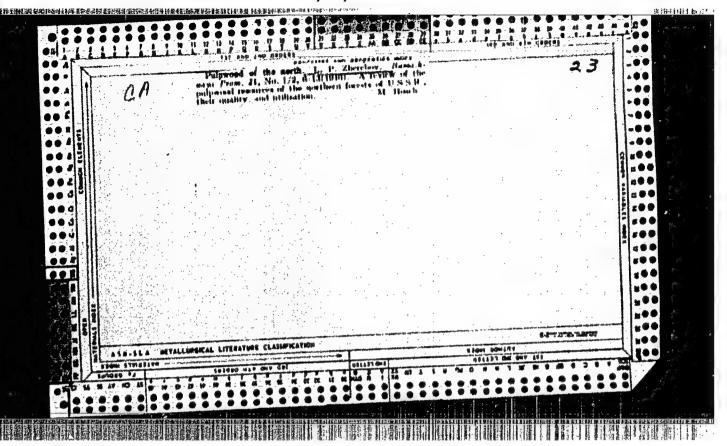


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#### CIA-RDP86-00513R002064720003-7

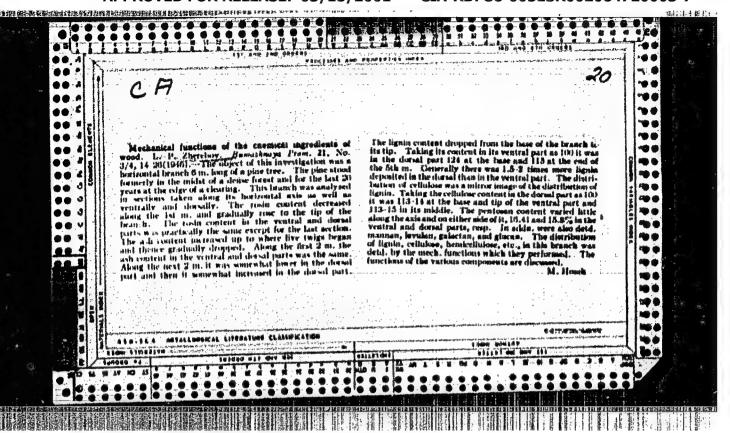


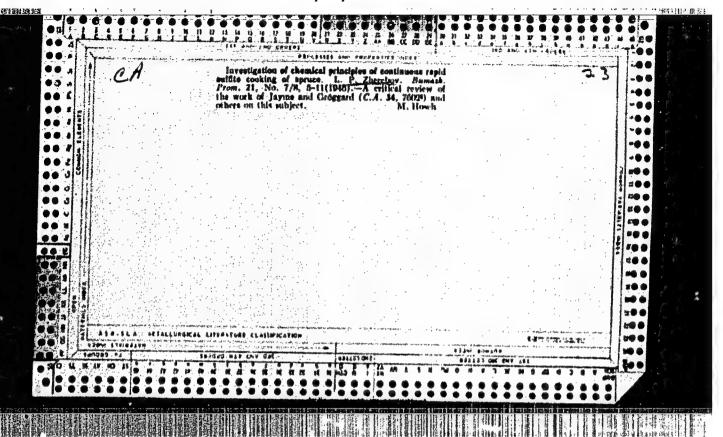


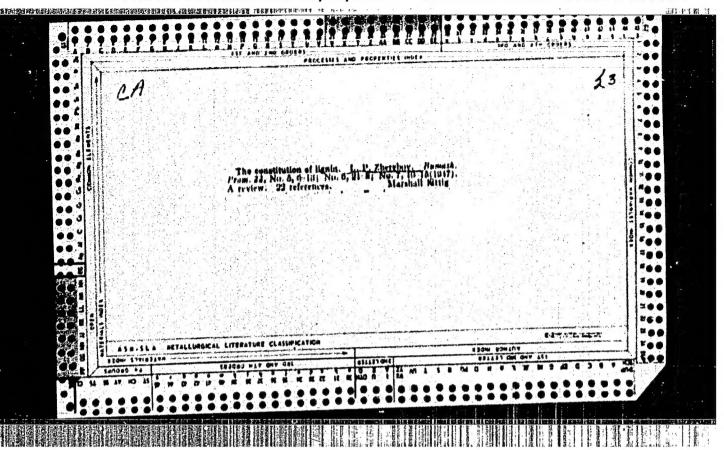


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<b>Z</b> I	IREBOV, L.P., professor.
	Chemical decomposition of spruce wood in the sulfite cooking process. Bum. prom. 22 no.9:6-14 S '53. (WHA 6:8)  (Wood pulp)

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	Chemical prom. 28	decomposit	ion of N 153.	spruce	wood :	in the	sulfite	cooking	process. (MIRA 6 Wood pulp	Bun. :11)

The nature of some substances of the cambial juice of Pinus silvestris.  Doklady Akad. Nauk S.S.S.R. 90, 429-31 153. (MLRA 6:5)  (CA 47 no.17:8839 153)
1. A.N. Bakh Biochem. Inst., Moscow.
이번 그는 사람들이 얼마를 보고 있다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
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